

Overview

HP OpenView HP OpenView Storage Operations Manager

Product Version: 1.1

Second Edition (July 2004)

Part Number: T2538-88101

For the latest version of this Overview and other documentation, access the HP storage web site:
<http://h18006.www1.hp.com/products/storageworks/enterprise/documentation.html>.



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Introduction



HP OpenView Storage Operations Manager

This document briefly describes HP OpenView Storage Operations Manager for EVA v1.1 (SOM). For details on installation or upgrades to SOM v1.1, refer to the documents mentioned in this overview.

SOM v1.1 consists of the following software components:

- HP OpenView Storage Area Manager v3.2 with a license-to-use the Storage Node manager component
- HP StorageWorks Command View EVA v3.2
- Storage Management Initiative Specification Enterprise Virtual Array (SMI-S EVA) v3.2

New Features with this Release

The following items are new for this release:

- Support of VCS v3.020 enables use of low cost 250 GB FATA and 300 GB high performance drives with an EVA
- Additional host operating system and network storage device support extends enterprise management capabilities of Storage Node Manager
- Selective network device management simplifies the device map and helps align managed capacity to the SOM license
- Support of third-party reporting tools with Storage Node Manager enables asset reporting to align with preferred business applications
- Enhanced and simplified Migration Program now includes 1-year 24-hour, 7 days a week support for qualified current, and future purchased EVA capacity
- Cross Vraid snap functionality
- SMI-S support for Storage Area Manager

HP OpenView Storage Area Manager

Storage Area Manager is a software suite with a modular architecture including Storage Node Manager, Storage Builder, Storage Optimizer, Storage Accountant, and Storage Allocator. These modules allow customers to manage storage with a single solution. From the Storage Area Manager user interface, you can effectively monitor, manage, optimize, and plan storage service availability, performance, usage, cost, and growth. Storage Area Manager also enables management and capacity planning for Oracle and Microsoft Exchange applications.

SOM v1.1 provides a permanent license for Storage Node Manager. The remaining modules in the Storage Area Manager suite can be evaluated for 60-days. Refer to the HP OpenView Storage Area Manager Installation Guide and HP OpenView Storage Area Manager Administrator's Guide on the Storage Area Manager CD's for further technical information.

SMI-S support for Storage Node Manager is described in the *HP OpenView Storage Area Manager Installation Guide*.

To install HP OpenView Storage Node Manager, contact your HP sales representative to schedule HP professional services.

For more information on Storage Node Manager features, visit the url provided in “[Where to find more information on the various components of this solution](#)” on page 8. Also refer to the document *HP OpenView Storage Node Manager - Putting into Practice Example* included with SOM v1.1

Command View EVA v3.2

Command View EVA provides a centralized management platform using a common user interface. This common interface allows you to launch HP software products. You can manage a single modular array or multiple arrays from a single management console. Command View EVA provides you with a choice of user interfaces: a GUI, a scripting utility (SSSU), or web-browser. Command View EVA includes event/trap capabilities to network management frameworks, enabling you to be aware of changes in their storage environment.

Command View EVA integrates with higher level management frameworks such as Storage Area Manager, Network Node Manager, HP Systems Insight Manager, Instant Support Enterprise Edition, CA Unicenter TNG, BMC Patrol and Tivoli NetView. These integrations enable you to manage HP storage systems from your network management console.

Command View EVA provides Cross Vraid snap functionality which allows changing the Vraid type when snapping or snapcloning. Cross Vraid Snapshots are enabled within the same Vdisk group or across Vdisk groups (including standard Vdisk and FATA Vdisk groups).

Installation information for Command View EVA, is detailed in the “*HP StorageWorks Enterprise Virtual Array Updating Product Software Instructions*.”

The *Updating Product Software Instructions* is available on the web (see “[Where to find more information on the various components of this solution](#)” on page 8.

Storage Management Initiative Specification

With SOM v1.1, Hewlett-Packard supports the storage standard called the Storage Management Initiative Specification (SMI-S). HP is a contributing member of the Storage Networking Industry Association (SNIA), which is a technical organization chartered to build seamless multi-vendor storage management networks.

The SMI-S specification standardizes the interface for SAN management, device control architectures, and associated interfaces. The SMI-S specification enables HP and other storage vendors to ultimately develop products to a single standard interface, eliminating the need for custom or manual integration of HP storage solutions into multivendor environments.

SOM v1.1 integrates a SMI-S provider for HP StorageWorks Command View EVA which enables software vendors to develop software to manage EVA arrays. SOM v1.1 also provides a SMI-S client with Storage Area Manager that allows SMI-S compliant hardware to function with Storage Area Manager.

For SMI-S installation instructions, please refer to the section “Installing SMI-S EVA” in *HP StorageWorks Enterprise Virtual Array Updating Product Software Instructions*.

The *Updating Product Software Instructions* is available on the web (see “[Where to find more information on the various components of this solution](#)” on page 8.

Additional Supported Software

The following software is supported by SOM v1.1 (contact your hp sales representative to obtain the software).

Storage System Scripting Utility

The Storage System Scripting Utility (SSSU) for Enterprise Virtual Array allows you to configure and control EVA 3000 and 5000 controllers from a command line. You can execute configuration requests using SSSU or Command View EVA graphical user interface. Use Command View EVA to handle simple or initial configuration tasks easily and expediently. Use SSSU to script and run repetitious and complex configuration tasks.

HP Instant Support Enterprise Edition

SOM v1.1 provides support for HP Instant Support Enterprise Edition (ISEE). ISEE simplifies management of highly diverse IT environments by providing a single remote support solution for multiple operating systems and technologies, improving your system uptime and reducing the cost and complexity of managing your environment. HP ISEE uses continuous hardware event monitoring and automated notification to identify and prevent potential critical problems during support coverage hours. Through remote diagnostics scripts and vital information collected about the status and configuration of your environment, HP ISEE enables fast restoration of your supported systems and devices should a problem occur. Many problems that once required waiting for HP on-site support can now be resolved more quickly through remote support. An internet connection is required for ISEE. Contact your HP sales representative to install ISEE.

HP ISEE provides the following benefits:

- Proactive monitoring to reduce system downtime. Continuous event monitoring and automated notification minimize disruptions to revenue generating activities and business processes.
- Faster time to problem resolution. Remote diagnostic scripts and system configuration collection improve system availability and business productivity.
- Robust remote support security. HP ISEE security architecture is designed to provide both data integrity and transaction security—through industry-standard encryption and authentication technology—and a single secure HP access point into the IT environment.
- Reduced complexity and costs. A common remote support solution will eliminate the need to manage multiple HP support tools and connectivity methods across various HP data center products and operating environments.

HP ISEE offers the following features:

- Remote hardware event management. Diagnostic software monitors hardware status and generates notification events when predetermined conditions are detected for supported servers, connected peripherals, and storage devices connected to supported systems. Notification events are received by agent software installed on the monitored system at the customer site and then forwarded to HP for review and possible support action. This capability helps identify and prevent problems before they occur, increasing your system uptime.
- Remote execution of diagnostic scripts. A diagnostic engine installed on a monitored client is able to remotely execute support scripts that can diagnose problems on supported servers, connected peripherals, and storage devices, providing timely solutions to your problems. Additional system configuration information is collected on monitored HP-UX, Microsoft® Windows®, and Red Hat Linux systems for troubleshooting and faster resolution of problems. The execution of remote diagnostic and configuration scripts is controlled and scheduled by the customers.
- Remote network access for HP support engineers. (Advanced Configuration only) HP owns and maintains a virtual private network (VPN) router installed in the customer's environment. The VPN router requires a globally routable Internet Protocol address. It provides a secure VPN tunnel between HP and your network, allowing an HP support engineer to remotely access your monitored systems and devices with your authorization. The HP support engineer can log in to your system, observing normal customer security procedures and permissions, to provide remote hardware or software support for quicker resolution of problems.
- Software management capabilities. (Advanced Configuration only) The software management capabilities allow you to easily manage ISEE software upgrades and to select the ISEE software components you want to update, simplifying the process and saving you time. You'll be notified of the latest features and enhancements that are available to you.

For further information on ISEE, visit:

http://www.hp.com/hps/hardware/hw_instant.html

Installing or Upgrading to HP OpenView SOM v1.1

For installation and upgrade procedures for HP Command View EVA, refer to the *HP StorageWorks Enterprise Virtual Array Updating Product Software Instructions*. This document is available on the web as a PDF file.

This document provides instructions for Command View EVA. It also provides directions to find installation instructions for the other components of HP OpenView SOM.

Please ensure that you have read the updating product software instructions.

Please contact an HP Sales representative for installation of HP OpenView Storage Node Manager and ISEE.

The latest version of the Updating Product Software Instructions is located at the following web site:

<http://h20000.www2.hp.com/bizsupport/TechSupport/DocumentIndex.jsp?contentType=SupportManual&prodTypeId=12169&prodSeriesId=359617>

Where to find more information on the various components of this solution

For more information, please visit the following links:

- HP StorageWorks Command View EVA v3.2
<http://h18006.www1.hp.com/products/storage/software/som/index.html>
- HP OpenView Storage Management Appliance
<http://h18004.www1.hp.com/products/sanworks/managementappliance/index.html>
- SMI-S <http://www.snia.org/smi/home>
- HP OpenView Storage Area Manager v3.2
<http://h18006.www1.hp.com/products/storage/software/sam/index.html>
- ISEE http://www.hp.com/hps/hardware/hw_instant.html

For general support for your HP products, visit the website:

<http://www.hp.com/support>

Documentation Map

The following documents are available from the Web at <http://www.hp.com> or the specific location listed:

Command View EVA Documents

The following documents are available on the SOM v1.1 Installation CD or at:

<http://h20000.www2.hp.com/bizsupport/TechSupport/DocumentIndex.jsp?contentType=SupportManual&prodTypeId=12169&prodSeriesId=359617>

- *HP StorageWorks Enterprise Virtual Array Updating Product Software Instructions*

- *HP StorageWorks Command View EVA Release Notes*

- *HP StorageWorks Command View EVA Getting Started Guide*

The following document is available within the HP StorageWorks Command View GUI software

- *HP StorageWorks Command View EVA Online Help System*

The following documents are available on the SOM v1.1 Installation CD or at:

<http://www.hp.com/go/evaplatformkit/>

- *HP StorageWorks EVA Platform Kits*

HP OpenView Storage Area Manager Documents

The following documents are available on the Storage Area Manager CD or at:

http://ovweb.external.hp.com/lpe/doc_serv

- *HP OpenView Storage Area Manager Installation Guide*

- *HP OpenView Storage Area Manager Upgrade Guide*

- *HP OpenView Storage Area Manager Administrator's Guide*

- *HP OpenView Storage Area Manager CLUI Reference Manual*

- *HP OpenView Storage Area Manager Release Notes*

The following document is available within the Storage Area Manager GUI software

- *HP OpenView Storage Area Manager online help system*

